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## AMENDMENTS TO THE CLAIMS

 (Currently Amended) A biocompatible tissue implant for repairing a tissue injury or defect, comprising:

(a) an isolated biological tissue slice harvested from healthy tissue, the tissue slice having a geometry suitable for implantation at a tissue site, the tissue slice dimensioned and capable of acting as a cell source that allows viable cells to migrate out of the tissue slice and to proliferate and integrate with tissue at the tissue injury or defect;

(b) at least one minced tissue fragment containing a plurality of viable cells that can migrate from the tissue fragment, wherein the at least one minced tissue fragment is associated with the isolated biological tissue slice; and

(c) a retaining element for securing the tissue slice to the tissue site.

- (Original) The implant of claim I, wherein the tissue slice comprises autogeneic tissue, allogeneic tissue, xenogeneic tissue, and combinations thereof.
- (Original) The implant of claim 1, wherein the tissue slice is obtained from a tissue type selected from the group consisting of cartilage, meniscus, tendon, ligament, intestinal, stomach, bladder, alimentary, respiratory, genital, liver, dermis, synovium, and combinations thereof.
- (Original) The implant of claim 1, wherein the tissue slice has a thickness less than about 3
  mm.
- (Original) The implant of claim 4, wherein the tissue slice has a thickness less than about 1 mm.
- (Original) The implant of claim 5, wherein the tissue slice has a thickness in the range of about 200 μm to about 500 μm.
- (Withdrawn) The implant of claim 1, further including a plurality of tissue slices joined together to form a layered implant of a desired size and geometry.
- (Cancelled).

 (Previously Presented) The implant of claim 1, wherein the retaining element is selected from the group consisting of fasteners, staples, tissue tacks, sutures, adhesives, and combinations thereof.

10. (Previously Presented) The implant of claim 9, wherein the retaining element is an adhesive selected from the group consisting of hyaluronic acid, fibrin glue, fibrin clot, collagen gel, collagen-based adhesive, alginate gel, crosslinked alginate, gelatin-resorcin-formalin-based adhesive, mussel-based adhesive, dihydroxyphenylalanine (DOPA)-based adhesive, chitosan, transglutaminase, poly(amino acid)-based adhesive, cellulose-based adhesive, polysaccharide-based adhesive, synthetic acrylate-based adhesives, platelet rich plasma (PRP), platelet poor plasma (PPP), PRP clot, PPP clot, blood, blood clot, polyethylene glycol-based adhesive, Matrigel, Monostearoyl Glycerol co-Succinate (MGSA), Monostearoyl Glycerol co-Succinate/polyethylene glycol (MGSA/PEG) copolymers, laminin, elastin, proteoglycans, and combinations thereof.

## (Cancelled).

- 12. (Currently Amended) The implant of claim 4+ 1, wherein the at least one minced tissue fragment is delivered in a biological or synthetic hydrogel selected from the group consisting of hyaluronic acid, fibrin glue, fibrin clot, collagen gel, collagen-based adhesive, alginate gel, crosslinked alginate, chitosan, synthetic acrylate-based gels, platelet rich plasma (PRP), platelet poor plasma (PPP), PRP clot, PPP clot, blood, blood clot, Matrigel, agarose, chitin, chitosan, polysaccharides, poly(oxyalkylene), a copolymer of poly(ethylene oxide)-poly(propylene oxide), poly(vinyl alcohol), laminin, elastin, proteoglycans, solubilized basement membrane, or combinations thereof.
- (Currently Amended) The implant of claim 14 1, wherein the at least one minced tissue fragment has a particle size in the range of about 0.1 mm³ to about 2 mm³.
- 14. (Withdrawn) The implant of claim 1, further including a biocompatible tissue scaffold.
- (Withdrawn) The implant of claim 14, wherein the tissue scaffold is bioresorbable.
- (Withdrawn) The implant of claim 14, wherein the tissue scaffold is formed from a
  material selected from the group consisting of a synthetic polymer, a natural polymer, an

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injectable gel, a ceramic material, autogeneic tissue, allogeneic tissue, xenogeneic tissue, and combinations thereof.

- (Withdrawn) The implant of claim 14, wherein the scaffold further comprises at least one bioactive agent applied thereto.
- 18. (Withdrawn) The implant of claim 17, wherein the at least one bioactive agent is selected from the group consisting of growth factors, matrix proteins, peptides, antibodies, enzymes, platelets, platelet rich plasma, glycoproteins, hormones, glycosaminoglycans, nucleic acids, analgesics, viruses, virus particles, cytokines and isolated cells and combinations thereof.
- (Withdrawn) The implant of claim 14, further including a plurality of tissue slices and a
  plurality of tissue scaffolds joined together to form a layered implant of a desired size and
  geometry.
- 20. (Currently Amended) A method for repairing a tissue injury or defect, comprising: providing a biocompatible tissue implant comprising: (i) an isolated biological tissue slice harvested from healthy tissue, having a geometry suitable for implantation at an injury or defect site, and capable of acting as a source of viable cells; and (ii) at least one minced tissue fragment containing a plurality of viable cells that can migrate from the tissue fragment, wherein the at least one minced tissue fragment is associated with the isolated biological tissue slice;

delivering the implant to the tissue site to be repaired;
securing the naturally occurring biological tissue slice to the tissue site; and
allowing viable cells to migrate out of the tissue-slice biocompatible tissue implant to
proliferate and integrate with tissue at the tissue site.

- (Withdrawn) The method of claim 20, wherein the biocompatible tissue implant is in the form of a plurality of tissue slices joined together to form a layered implant of a desired size and geometry.
- 22. (Withdrawn) The method of claim 20, further including the step of applying the tissue slice to a biocompatible tissue scaffold to form a composite implant prior to the delivering step, and the step of delivering the implant comprises delivering the composite implant to the tissue site to be repaired.

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 (Original) The method of claim 20, further including the step of applying a bioactive agent to the implant either before or after delivery.

- 24. (Original) The method of claim 23, wherein the bioactive agent is selected from the group consisting of growth factors, matrix proteins, peptides, antibodies, enzymes, platelets, platelet rich plasma, glycoproteins, hormones, glycosaminoglycans, nucleic acids, analgesics, virus particles, cytokines and isolated cells and combinations thereof.
- 25. (Previously Presented) The method of claim 20, wherein the step of securing the biocompatible tissue implant to the tissue site includes using a retaining element selected from the group consisting of fasteners, staples, tissue tacks, sutures, adhesives, and combinations thereof.

## (Canceled)

- 27. (Currently Amended) The method of claim 26 20, wherein the at least one minced tissue fragment is applied in a biological or synthetic hydrogel selected from the group consisting of hyaluronic acid, fibrin glue, fibrin clot, collagen gel, collagen-based adhesive, alginate gel, crosslinked alginate, chitosan, synthetic acrylate-based gels, platelet rich plasma (PRP), platelet poor plasma (PPP), PRP clot, PPP clot, blood, blood clot, Matrigel, agarose, chitin, chitosan, polysaccharides, poly(oxyalkylene), a copolymer of poly(ethylene oxide)-poly(propylene oxide), poly(vinyl alcohol), laminin, elastin, proteoglycans, solubilized basement membrane, or combinations thereof.
- (Previously Presented) The implant of claim 4, wherein the tissue slice is configured as a strip.